

## **Listing of Claims**

This listing of claims shows all the changes made relative to the claims of the issued patent.

1. (Twice Amended) A cut cornered mixed cut gemstone, comprising a girdle, a crown above and a pavilion below said girdle,  
  
said crown comprising a width and length formed by two pairs of opposing crown sides and four corners, each of the four crown [side] sides and four corners [corner] having a length along the girdle, each of said four corner [length] lengths being substantially less than each of said four side [length] lengths, said crown also comprising at least two steps, including a first step from the girdle to a crown break, and a second step from the crown break to the table break, said crown break defined by lines parallel with said girdle, said crown also having a substantially flat table, said table having one facet having four sides and four corners defined by lines parallel with said girdle, each of said four table corner lengths being substantially less than each of said four table side lengths,  
  
said pavilion having a bottom and comprising a substantially centrally located culet at the bottom of the pavilion, said culet being one of a point, a facet and a single small line, said pavilion also comprising two pairs of opposing pavilion sides and four pavilion corners defined by eight rib lines extending from the girdle to the culet, wherein each rib line extends in a substantially straight line when viewed from the bottom of the pavilion.

2. The gemstone according to claim 1, wherein the rib lines extend substantially continuously from the girdle to the culet.

3. (Twice Amended) [The gemstone according to claim 1] A cut cornered mixed cut gemstone, comprising a girdle, a crown above said girdle and a pavilion below said girdle,  
  
said crown comprising a width and length formed by two pairs of opposing crown sides and four crown corners, each of the four crown sides and four corners having a length along the girdle,  
  
each of said four corner lengths being substantially less than each of said four side lengths, said

crown also comprising at least two steps, including a first step from the girdle to a crown break, and a second step from the crown break to a table break, said crown break defined by lines parallel with said girdle, said crown also having a substantially flat table, said table having one facet having four sides and four corners defined by lines parallel with said girdle,

said pavilion having a bottom and comprising a substantially centrally located culet at the bottom of the pavilion, said culet being one of a point, a facet and a single small line said pavilion also comprising two pairs of opposing pavilion sides and four pavilion corners defined by eight rib lines extending from the girdle to the culet, wherein each rib line extends in a substantially straight line when viewed from the bottom of the pavilion, wherein the pavilion sides and corners each comprise a plurality of facets.

4. (Twice Amended) [The gemstone according to claim 1] A cut cornered mixed cut gemstone, comprising a girdle, a crown above said girdle and a pavilion below said girdle,

said crown comprising a width and length formed by two pairs of opposing crown sides and four crown corners, each crown side and corner having a length along the girdle, said corner length being substantially less than said side length, said crown also comprising at least two steps, including a first step from the girdle to a crown break, and a second step from the crown break to a table break, said crown break defined by lines parallel with said girdle, said crown also having a substantially flat table, said table having one facet having four sides and four corners defined by lines parallel with said girdle;

said pavilion having a bottom and comprising a substantially centrally located culet at the bottom of the pavilion, said culet being one of a point, a facet and a single small line said pavilion also comprising two pairs of opposing pavilion sides and four pavilion corners defined by distinct eight rib lines extending from the girdle to the culet, wherein each rib line extends in a substantially

straight line when viewed from the bottom of the pavilion, wherein each pavilion side has only two facets along each rib line.

5. A cut cornered mixed gemstone, comprising a girdle, a crown above said girdle and a pavilion below said girdle,

said crown comprising a width and length formed by two pairs of opposing crown sides and four crown corners, each crown side and corner having a length along the girdle, said corner length being substantially less than said side length, said crown also comprising at least two steps, including a first step from the girdle to a crown break, and a second step from the crown break to a table break, said crown also having a substantially flat table,

said pavilion having a bottom and comprising a substantially centrally located culet at the bottom of the pavilion, said pavilion also comprising two pairs of opposing pavilion sides and four pavilion corners defined by eight rib lines extending from the girdle to the culet, wherein each pavilion corner has only two facets along each rib line.

6. (Three Times Amended) A cut cornered mixed cut gemstone, comprising a girdle, a crown above said girdle and a pavilion below said girdle,

said crown comprising a width and length formed by two pairs of opposing crown sides and a flat table, said table having four sides and four cut corners, said table sides being substantially parallel with the girdle, said table corners being substantially less in length than said sides,

said pavilion having a bottom and comprising a substantially centrally located culet at the bottom of the pavilion, said culet being one of a point, a facet and a single small line said pavilion also comprising two pairs of opposing pavilion sides and four corners defined by distinct rib lines extending from the girdle to the culet, said rib lines extending in a straight line from the girdle to the

culet when viewed from the bottom of the pavilion, wherein each pavilion side comprises at least three facets each having a facet corner intersecting at a common facet intersection point.

7. (Three Times Amended) A cut cornered mixed cut gemstone comprising a girdle, a crown above said girdle and a pavilion below said girdle,

said crown comprising a width and length formed by two pairs of opposing crown sides and a substantially flat table, said table having four sides and four cut corners, said table sides being substantially parallel with the girdle, said table corners being substantially less in length than said table sides,

said pavilion having a bottom and comprising a substantially centrally located culet at the bottom of the pavilion, said culet being one of a point, a facet and a single small line, said pavilion also comprising two pairs of opposing pavilion sides defined by distinct rib lines extending from the girdle to the culet, said rib lines extending in a straight line from the girdle to the culet when viewed from the bottom of the pavilion, wherein each pavilion side comprises a plurality of facets each having a facet corner intersecting at a common facet intersection point, wherein the plurality of facets on each pavilion side is at least four.

8. (Twice Amended) A cut cornered mixed cut gemstone, comprising of a girdle, a crown above said girdle and a pavilion below said girdle,

said crown comprising a width and length formed by two pairs of opposing crown sides and a substantially flat table, said table having four sides and four cut corners, said table corners being substantially less in length than said table sides,

said pavilion having a bottom and comprising a substantially centrally located culet at the bottom of the pavilion, said culet being one of a point, a facet and a single small line, said pavilion also comprising two pairs of opposing sides defined by distinct rib lines extending from the girdle to

the culet and two pairs of opposing pavilion corners, wherein each pavilion side and corner comprises a plurality of facets, and wherein each pavilion side and corner has only two facets along each rib line.

9. (Three Times Amended) A cut cornered mixed cut gemstone, comprising a girdle defined by girdle line, a crown above said girdle and a pavilion below said girdle, said crown comprising a width and length formed by two pairs of opposing crown sides and four crown corners, wherein each crown side intersects with its adjacent corners at about the same angle of intersection, said crown also comprising at least two steps, including a first step from the girdle to a crown break, and a second step from the crown break to a table break, said crown also having a [substantially] flat table, said table having one facet having four sides and four corners defined by lines parallel to said girdle lines, and wherein all of the steps in each side of the crown have the same facet corner angles as all of the other steps in each crown side, wherein said corners are substantially shorter than said sides

said pavilion having a bottom and comprising a substantially centrally located culet at the bottom of the pavilion, said culet being one of a point, a facet and a single small line, said pavilion also comprising two pairs of opposing pavilion sides and four pavilion corners defined by eight distinct rib lines extending from the girdle entirely to the culet, said pavilion sides and corners extending entirely to the culet.

10. (Twice Amended) A cut cornered mixed cut gemstone, comprising a girdle defined by girdle lines, a crown above said girdle and a pavilion below said girdle,

said crown comprising a width and length formed by two pairs of opposing crown sides, four crown corners, said crown also comprising at least two steps, including a first step from the girdle to a crown break, and a second step from the crown break to a table break, each crown corner

having a facet defined by a facet line common with a girdle line, said crown also having a substantially flat table, said table having four sides and four cut corners, said table corners being substantially less in length than said table sides,

said pavilion having a bottom and comprising a substantially centrally located culet at the bottom of the pavilion, said culet being one of a point, a facet and a single small line, said pavilion also comprising two pairs of opposing pavilion sides and four pavilion corners defined by eight distinct rib lines extending from the girdle to the culet, wherein facet intersection lines in the pavilion define where two facets have a common side, said pavilion being devoid of any facet intersection lines parallel with the girdle.

11. (Twice Amended) A cut cornered mixed cut gemstone, comprising a girdle, a crown above said girdle and a pavilion below said girdle,

said crown comprising a width and length formed by two pairs of opposing crown sides and a substantially flat table, said table having four sides and four cut corners, all of said sides being substantially longer than said corners, said table corners being substantially less in length than said table sides,

said pavilion having a bottom and comprising a substantially centrally located culet at the bottom of the pavilion, said culet being one of a point, a facet and a single small line, said pavilion also comprising two pairs of opposing pavilion sides and four corners defined by distinct rib lines extending from the girdle to the culet, wherein each pavilion side and corner comprises a plurality of facets each having a facet corner intersecting at a common facet intersection point inwardly of said rib lines, and wherein each pavilion side and corner has a facet with a facet corner at the culet.

12. (Three Times Amended) A cut cornered mixed cut gemstone, comprising a girdle, a crown above said girdle and a pavilion below said girdle,

said crown comprising a width and length formed by two pairs of opposing crown sides and a substantially flat table having four sides and four cut corners, all of said sides being substantially longer than said corners.

said pavilion having a bottom and comprising a substantially centrally located culet at the bottom of the pavilion, said culet being one of a point, a facet and a single small line, said pavilion also comprising two pairs of opposing pavilion sides and four corners defined by distinct rib lines extending from the girdle to the culet, wherein each rib line extends in a substantially straight line when viewed from the bottom of the pavilion, wherein each pavilion corner has a plurality of facets, and wherein each pavilion side comprises a plurality of facets each and every one of said plurality having a facet corner intersecting at a common facet intersection point, wherein one of the facets in the pavilion side is a girdle star facet extending downwardly from the girdle, which girdle star facet has only three sides.

13. (Three Times Amended) A cut cornered mixed cut gemstone, comprising a girdle, a crown above said girdle and a pavilion below said girdle.

said crown comprising a width and length formed by two pairs of opposing crown sides and a substantially flat table having four sides and four corners, said table corners being substantially less in length than said table sides,

said pavilion having a bottom and comprising a substantially centrally located culet at the bottom of the pavilion, said culet being one of a point, a facet and a single small line, said pavilion also comprising two pairs of opposing pavilion sides and four corners defined by distinct rib lines extending from the girdle to the culet, wherein each pavilion corner has a plurality of facets, wherein each pavilion side comprises a plurality of facets each having a facet corner intersecting at

a common facet intersection point not any rib line and each pavilion facet having no more than four sides, and wherein each pavilion side has a facet with a facet corner at the culet.

14. (Twice Amended) A cut cornered mixed cut gemstone, comprising a girdle, a crown above said girdle and a pavilion below said girdle,

said crown comprising a width and length formed by two pairs of opposing crown sides and a substantially flat table, said table having four sides and four cut corners, said table corners being substantially less in length than said table sides,

said pavilion having a bottom and comprising a substantially centrally located culet at the bottom of the pavilion, said culet being one of a point, a facet and a single small line, said pavilion also comprising two pairs of opposing pavilion sides and four pavilion corners defined by eight [corners] distinct rib lines extending in a straight line from the girdle to the culet when viewed from the bottom of the pavilion, wherein each pavilion side and corner comprises a plurality of facets, and wherein each pavilion side and corner has only two facets along each rib line, and once facet along the girdle.

15. (Three Times Amended) A cut cornered mixed cut gemstone, comprising a girdle, a crown above said girdle and a pavilion below said girdle,

said crown comprising a width and length formed by two pairs of opposing crown sides and four crown corners, each crown side and corner having a length along the girdle, each of said corner [length] lengths being substantially less than each of said side [length] lengths, said crown also comprising at least two steps, including a first step from the girdle to a crown break, and a second step from the crown break to a table break, said crown also having a substantially flat table, said table having one facet having four sides and four corners defined by lines parallel with said girdle, said table corners being substantially less in length than said table sides,



said pavilion having a bottom and comprising a substantially centrally located culet at the bottom of the pavilion, said culet being one of a point, a facet with a single small line, said pavilion also comprising two pairs of opposing pavilion sides and four pavilion corners defined by eight distinct rib lines extending from the girdle to the culet, said pavilion sides and corners extending entirely to the culet.

16. A cut cornered mixed cut gemstone, comprising a girdle, a crown above said girdle and a pavilion below said girdle,

said crown comprising a width and length formed by two pairs of opposing crown sides and four crown corners, each crown side and corner having a length along the girdle, each of said corner lengths being substantially less than each of said side lengths, said crown also comprising at least two steps, including a first step from the girdle to a crown break, and a second step from the crown break to a table break, said crown also having a substantially flat table, said table having one facet having four sides and four corners defined by lines parallel with said girdle, said table corners being substantially less than said table sides,

said pavilion having a bottom and comprising a substantially centrally located culet at the bottom of the pavilion, said culet being one of a point, a facet and a single small line, said pavilion also comprising two pairs of opposing pavilion sides and four pavilion corners defined by eight lines extending from the girdle to the culet, said pavilion sides and corners extending entirely to the culet, wherein each pavilion corner has only two facets along each rib line

17. The gemstone according to claim 6, wherein each pavilion side has four facets each having a facet corner intersecting at a common intersection point.

18. The gemstone according to claim 7, wherein the number of facets on each pavilion corner is at least four.

19. The gemstone according to claim 13, wherein the common facet intersection point is about  $\frac{3}{4}$  of the way from the culet to the girdle.

20. The gemstone according to claim 13, wherein the facet in each pavilion side, which has a facet corner at the culet, has four sides.

21. A cut cornered mixed cut gemstone, comprising a girdle, a crown above said girdle and a pavilion below said girdle,

said crown comprising a width and length formed by two pairs of opposing crown sides and four corners, each of the four crown sides and four corners having a length along the girdle, each of said four corner lengths being substantially less than each of said four side lengths, said crown also comprising at least two steps, including a first step from the girdle to a crown break, and a second step from the crown break to a table break, said crown break defined by lines parallel with said girdle, wherein all of the steps in each side of the crown are defined by straight lines from the girdle to the table,

said pavilion having a bottom and comprising a substantially centrally located culet at the bottom of the pavilion, said culet being one of a point, a facet and a single small line, said pavilion also comprising two pairs of opposing pavilion sides and four pavilion corners defined by eight rib lines extending from the girdle to the culet, wherein each rib line extends in a substantially straight line when viewed from the bottom of the pavilion

22. A cut cornered mixed cut gemstone, comprising a girdle, a crown above said girdle and a pavilion below said girdle,

said crown comprising a width and length formed by two pairs of opposing crown sides and a substantially flat table having four sides and four corners, said table corners being substantially less in length than said table sides,

said pavilion having a bottom and comprising a substantially centrally located culet at the bottom of the pavilion, said culet being one of a point, a facet and a single small line, said pavilion also comprising two pairs of opposing pavilion sides defined by distinct rib lines extending from the girdle to the culet, wherein each pavilion side comprises a plurality of facets each having a facet corner intersecting at a common facet intersection point and each pavilion facet having no more than four sides, and wherein each pavilion side has a four sided facet having a facet corner at the culet.

23. A cut cornered mixed cut gemstone, comprising a girdle, a crown above said girdle and a pavilion below said girdle,

said crown comprising a width and length formed by two pairs of opposing crown sides and a substantially flat table having four sides and four corners, said table corners being substantially less in length than said table sides, said pavilion having a bottom and comprising a substantially centrally located culet at the bottom of the pavilion, said culet being one of a point, a facet and a single small line, said pavilion also comprising two pairs of opposing pavilion sides and four corners defined by distinct rib lines extending from the girdle to the culet, wherein each pavilion corner has a plurality of facets, wherein each pavilion side comprises a plurality of facets each having a facet corner intersecting at a common facet intersection point and each pavilion facet having no more than four sides, and wherein each pavilion side has a facet with a facet corner at the culet, and wherein each rib line extends in a substantially straight line when viewed from the bottom of the pavilion.